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PPLICATION NO.	. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/917,228	17,228 07/29/2001		Eric L. Schwartz	NDIS-002/01US	9201
23419	7590	05/08/2006		EXAMINER	
COOLEY			SIMS, JASON M		
3000 EL CA 5 PALO AL		<del></del>	ART UNIT	PAPER NUMBER	
PALO ALTO, CA 94306				1631	
				DATE MAILED: 05/08/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/917,228	SCHWARTZ ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jason M. Sims	1631					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
,	action is non-final.						
3) Since this application is in condition for allowa	nce except for formal matters, pro	osecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>1-29</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-29</u> are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.	•					
10) ☐ The drawing(s) filed on is/are: a) ☐ acc		Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Burea							
* See the attached detailed Office action for a list of the certified copies not received.							
AMachini antia							
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date	5) Notice of Informal I 6) Other:	Patent Application (PTO-152)					

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## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4 and 17-19, drawn to a computer readable medium and method of identifying individuals susceptible to incurring a disease transition using chosen variables for a mathematical model, classified in class 702, subclass 20.
- II. Claims 5-8 and 20-22, drawn to a method of identifying individuals susceptible to incurring a disease transition using a created mathematical model that is refined by performing logistic regression techniques, classified in class 702, subclass 20.
- III. Claims 9-12 and 23-25, drawn to a computer readable memory and method of identifying individuals susceptible to incurring a disease transition using a mathematical model where candidate variables are removed according to specific criteria, classified in class 702, subclass 20.
- IV. Claims 13-14 and 26-27, drawn to a computer readable medium and method of verifying data used to identify individuals susceptible to incurring a disease transition by writing patient data and location information to an electronic file, classified in class 702, subclass 20.
- V. Claims 15-16 and 28-29, drawn to a computer readable medium and method of verifying data used to identify individuals susceptible to incurring a disease transition involving receiving an electronic file, writing

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patient data to an electronic verification database, and querying patient medical information databases, classified in class 702, subclass 20.

Inventions I-V are directed to related subject matter of disease transitions and computer memory. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, group I is drawn to a method of identifying individuals susceptible to incurring a disease transition. The method involves unique steps of selectively choosing variables from candidate variables and using chosen variables in a mathematical model to predict disease transitions. Group II is drawn to a method of identifying individuals susceptible to incurring a disease transition. The method involves unique steps of creating a mathematical model and refining the model by performing logistic regression techniques. Group III is drawn to a method of identifying individuals susceptible to incurring a disease transition. The method involves unique steps of using numerical values in a mathematical model to determine a metric and removing candidate variables based on criteria. Group IV is drawn to a method of verifying data used to identify individuals susceptible to incurring a disease transition. The method involves the unique steps of writing patient data to an electronic file and writing data location information to comment fields in said electronic file. Group V is drawn to a method of verifying data used to identify individuals susceptible to incurring a disease

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transition. The method involves the unique steps of receiving an electronic file, writing patient data to an electronic verification database, and querying patient medical information databases.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Sims, whose telephone number is (571)-272-7540.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Ardin Marschel can be reached via telephone (571)-272-0718.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (571)-273-8300.

Any inquire of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571)-272-0549.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ARDIN H. MARSCHEL SUPERVISORY PATENT EXAMINER